

Schema v0.2

For C/C++	.ProtoMessage		Description	Example
HEADER	Schema Version [string]			0.3.1
	Device Name [string]			iPhoneX
	OS Info. [string]			IOS 13.4.1
	Telco. PCI list [int32]			324/ 256
	Telco. RSSI [int32]			-78
	Abs. Send Timestamp [uint64][ns]			1234567890
	Last Location [float64*4] (Optional)		[x,y,z,theta]	
	Extrinsic Params. [float32*6] (Optional)		[x,y,z,r,p,w]	
BODY	VPState	Status [enum]		InitMode, TrackMode, ...
		Last Abs. Timestamp [uint64][ns]		
		Last Location [float64*3]	[x,y,z]	
		Last Orientation [float32*4]	[qx,qy,qz,qw]	
		Last Dead Reckoning Pose [float32*7]	[x,y,z,qx,qy,qz,qw]	
		Dead Reckoning Pose [float32*7]	[x,y,z,qx,qy,qz,qw]	
	Camera	Abs. Timestamp [uint64][ns]		
		Type [enum]		eFRONT_1, eREAR_2
		Codec [enum]		ePNG, eMJPEG
		Width/Height [uint16]		1920 / 1080
		Pixel Format [enum]		BGR888
		Data(compressed) [uint8*@]	bytearray	
	GPS (Optional)	Abs. Timestamp [uint64][ns]		
		Data [float32*4]	Pose [x,y,z,theta]	
	IMU (Optional)	Abs. Timestamp [uint64][ns]		
		Data [float32*7]	[aX, aY, aZ, gX, gY, gZ, Temp]	
	Barometer (Optional)	Abs. Timestamp [uint64][ns]		
		Data [float32]	[bar]	
	Magnetic Compass (Optional)	Abs. Timestamp [uint64][ns]		
		Data [float32*4]	[Xais, Yaxis, Zaxis, Temp]	

Schema v0.1

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	OS Info. [string]			IOS 13.4.1
	Telco. PCI list [int32]			324/ 256
	Telco. RSSI [int32]			-78
	Abs. Send Timestamp [uint64][ns]			1234567890
	VPS Status [enum]			InitMode, TrackMode, ...
	Last Location [float64*4] (Optional)		[x,y,z,theta]	
	Extrinsic Params. [float32*6] (Optional)		[x,y,z,r,p,w]	
BODY	Camera	Abs. Timestamp [uint64][ns]		
		Type [enum]		eFRONT_1, eREAR_2
		Codec [enum]		ePNG, eMJPEG
		Width/Height [uint16]		1920 / 1080
		Pixel Format [enum]		BGR888
		Data(compressed) [uint8*@]	bytearray	
	GPS (Optional)	Abs. Timestamp [uint64][ns]		
		Data [float32*4]	Pose [x,y,z,theta]	
	IMU (Optional)	Abs. Timestamp [uint64][ns]		
		Data [float32*7]	[aX, aY, aZ, gX, gY, gZ, Temp]	
	Barometer (Optional)	Abs. Timestamp [uint64][ns]		
		Data [float32]	[bar]	
	Magnetic Compass (Optional)	Abs. Timestamp [uint64][ns]		
		Data [float32*4]	[Xais, Yaxis, Zaxis, Temp]	